

**Office of Energy Efficiency and Renewable Energy**  
**U.S. Department of Energy**



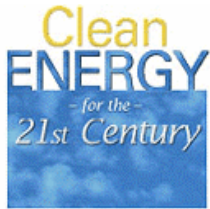
# **Renewable Power Purchasing by the Federal Sector**

Beth Shearer, FEMP Director

“Fifth National Green Power Marketing Conference”

August 8, 2000





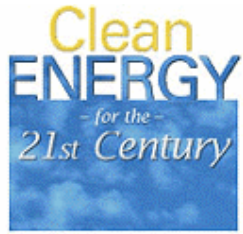
# Office of Energy Efficiency and Renewable Energy U.S. Department of Energy



## Presentation Outline

- Federal Energy Management Program (FEMP) Overview
- Executive Order 13123
- Federal Renewable Power Purchasing
- Resources





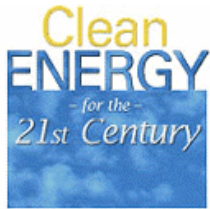
**Office of Energy Efficiency and Renewable Energy**  
**U.S. Department of Energy**

---

# Federal Government as Consumer

- \$200 billion annually on products and services
- \$8 billion on Federal energy bill
- 500,000 buildings
- Consumes 2% of nation's electricity





# Office of Energy Efficiency and Renewable Energy U.S. Department of Energy

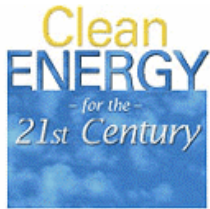


## Federal End-Use Sectors

- Buildings & Facilities
- Vehicles & Equipment
- Energy Intensive Operations



**FEMP**  
FEDERAL ENERGY MANAGEMENT PROGRAM



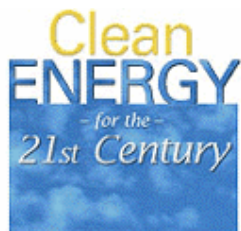
## Office of Energy Efficiency and Renewable Energy U.S. Department of Energy



# Executive Order 13123 Goals

- Reduce energy consumption
  - Standard buildings - 35% by 2010
  - Energy intensive buildings - 25% by 2010
  - Reduce greenhouse gases - 30% by 2010
- Increase use of renewable energy
- Reduce water usage





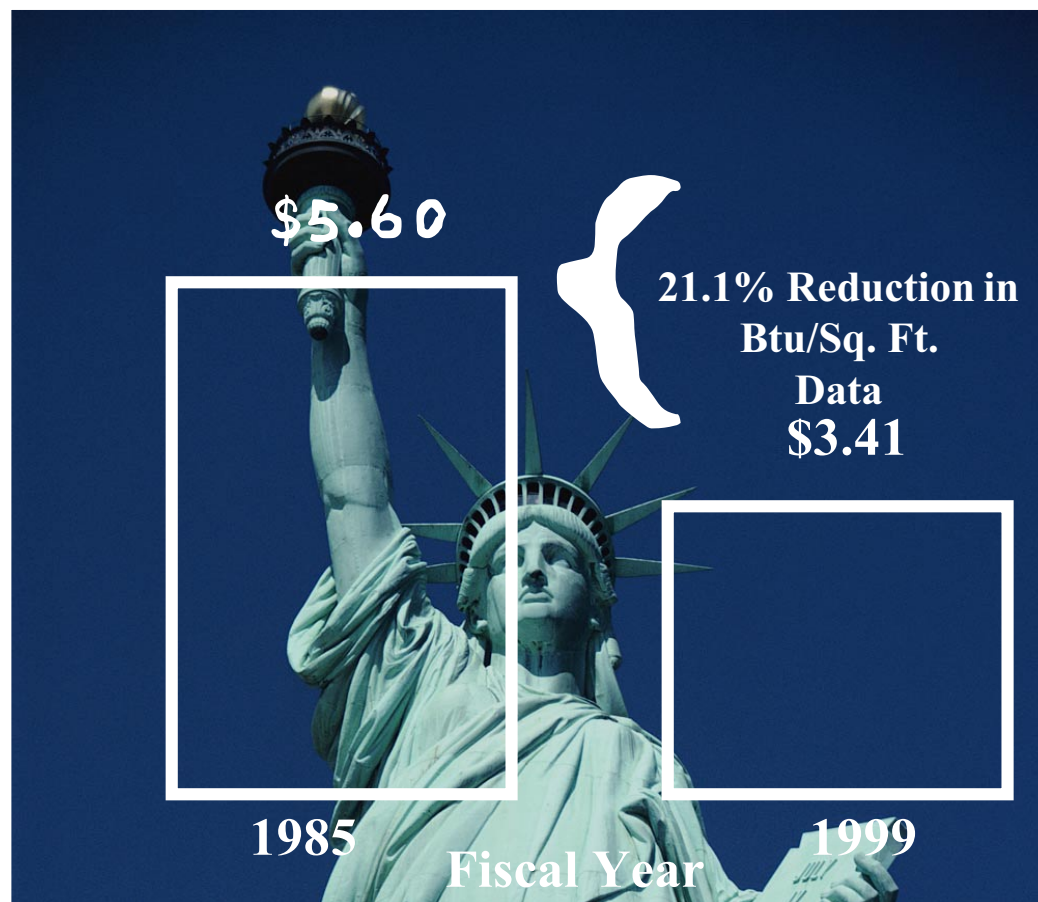
## Office of Energy Efficiency and Renewable Energy U.S. Department of Energy

### Progress

- FY 1999 data indicates that the Federal government achieved the FY 2000 goal one year early.
- In real dollars, FY 1999 energy costs for Federal buildings were almost \$2.2 billion less than in 1985.
- As of FY 1998, the Federal government reduced petroleum use in Federal facilities by 64% relative to 1985.

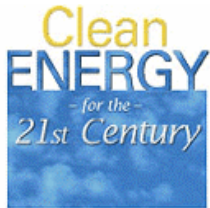
Billions of Constant 1999 Dollars

\$6.0
\$5.0
\$4.0
\$3.0
\$2.0
\$1.0
\$0.0



**FEMP**  
FEDERAL ENERGY MANAGEMENT PROGRAM





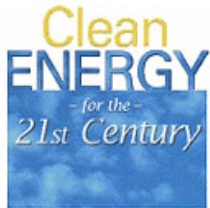
**Office of Energy Efficiency and Renewable Energy**  
**U.S. Department of Energy**



## **Federal Renewable Usage Goals**

- Wind Powering America Program Goal
  - Entice federal agencies to purchase 5% of electricity from wind by 2010
- DOE Secretarial Directive
  - 3% of DOE electricity from non-hydro renewable energy by 2005 and 7.5% by 2010





**Office of Energy Efficiency and Renewable Energy**  
**U.S. Department of Energy**

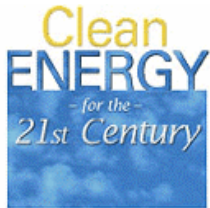


## What are agencies doing?

- In competitive environments, agencies are buying renewable power.
- In regulated environments, agencies are signing up for renewable offerings
- Agencies are beginning to look at “Green Tag” possibilities







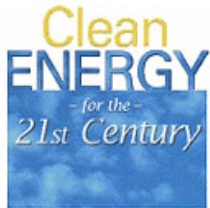
**Office of Energy Efficiency and Renewable Energy**  
**U.S. Department of Energy**



# Federal Sector Renewable Power Purchase Contracts

<u>Federal Agency (ies)</u>	<u>Location</u>	<u>kWh</u>	<u>Resource</u>
US Postal Service	California	30 million	Geothermal/Biomass/Small Hydro
GSA	MA & RI	4.8 million	TBD
GSA/EPA/NPS	Pennsylvania	2.7 million	Landfill Gas
EPA	Richmond, CA	1.8 million	Landfill Gas/Geothermal
EPA	Golden, CO	0.384 million	Wind
BPA	Portland, OR	0.552 million	Wind





**Office of Energy Efficiency and Renewable Energy**  
**U.S. Department of Energy**

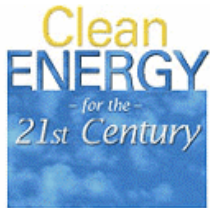


# Federal Sector Renewable Power Purchase Agreements

<u>Federal Agency (ies)</u>	<u>Location</u>	<u>kwh</u>	<u>Resource</u>
31 agencies*	Colorado	25 million	Wind
EPA	Manchester, WA	2.1 million	Wind
Oak Ridge National Lab.	Oak Ridge, TN	0.675 million	Landfill Gas/Wind/Solar

\*Denver Wind Purchase Initiative





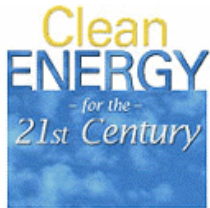
## Office of Energy Efficiency and Renewable Energy U.S. Department of Energy



### Short Term Activities

- Assistance with regional initiatives in both regulated and competitive markets
- Education
- Encourage agencies to explore renewables opportunities





## Office of Energy Efficiency and Renewable Energy U.S. Department of Energy



# Resources

- Purchasing Renewable Energy: A Guidebook for Federal Agencies
- EO 13123 and other FEMP Guidance
- Contacts:

Bill Golove, Lawrence Berkeley National Laboratory (LBNL)

510-486-5229, [whgolove@lbl.gov](mailto:whgolove@lbl.gov)

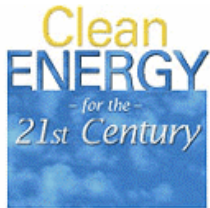
Chandra Shah, National Renewable Energy Laboratory (NREL)

303-384-7557, [chandra\\_shah@nrel.gov](mailto:chandra_shah@nrel.gov)

Ryan Wiser, LBNL

510-486-5474, [rhwiser@lbl.gov](mailto:rhwiser@lbl.gov)





# Office of Energy Efficiency and Renewable Energy U.S. Department of Energy



## Web Sites

- **FEMP Web Site** - [www.eren.doe.gov/femp/](http://www.eren.doe.gov/femp/)
- **EO 13123** - [www.eren.doe.gov/femp/aboutfemp/exec13123.html](http://www.eren.doe.gov/femp/aboutfemp/exec13123.html)
- **GSA Green Power** - [www.gsa.gov/pbs/centers/energy/green.htm](http://www.gsa.gov/pbs/centers/energy/green.htm)
- **Wind Powering America** -  
[www.eren.doe.gov/windpoweringamerica/](http://www.eren.doe.gov/windpoweringamerica/)
- **GeoPowering the West** - [www.eren.doe.gov/geopoweringthewest/](http://www.eren.doe.gov/geopoweringthewest/)
- **GSA Request for Proposals** - [www.gsa.gov/pbs/xu/co1.htm](http://www.gsa.gov/pbs/xu/co1.htm)
- **DOD Request for Proposals** -  
[www.desc.dla.mil/main/a/electric/index.htm](http://www.desc.dla.mil/main/a/electric/index.htm)
- **Green Power Network** - [www.eren.doe.gov/greenpower/home.shtml](http://www.eren.doe.gov/greenpower/home.shtml)
  - 1) **Green Pricing Programs** -  
[www.eren.doe.gov/greenpower/pricing.shtml](http://www.eren.doe.gov/greenpower/pricing.shtml)
  - 2) **Competitive Green Power Products**  
[www.eren.doe.gov/greenpower/marketing.shtml](http://www.eren.doe.gov/greenpower/marketing.shtml)

